C(7-H, 14-AIC) .2	n is not defined; $R_1 = H, 1.4C \text{ alkyl, halo or } 1.4C \text{ haloalkyl;}$ $R = a \text{ gp. of formula (i) - (ix);}$ $N = R_2$ $N = R_3$ $N = R_3$	R_3 S R_2 N Me O Me O Me O	(R_3)		(vi) (vi) (vi)	Jr 00032223-A+
96-236056/24 C02 MITK 94.09.27 MITK 94.09.27 MITK 94.09.27 MITSUI TOATSU CHEM INC *IP 08092223-A 04.09.77 94IP-231599 796.04.09.1 C07D 231/14. A01N 43/08. 43/10	43/40, 43/54, 43/58, C07D 237/08, 241/12, 239/26, 413/12, 409/12, 405/12, 307/52, 277/56, 277/32, 277/28, 263/32, 417/12, 261/08, A01N 43/60, 43/76, 43/78, 43/80, C07D 213/40, 213/61 New heterocyclic aniline derivs useful as agricultural and horticultural antibacterial agents esp. against gray mould on strawberries and green beans C96-075100	Heterocyclic aniline derivs. of formula (I) are new:	O NHH	Het (I)	Het = furyl, thiophenyl, pyridyl, pyrimidine, pyridazine (all substd. by (R ₁) _n); 1,2-oxazolyl, 1,2-thiazolyl or 1,3-thiazolyl, 1,3-oxazolyl (all substd. by R ₁) or 1-R ₁ -pyrazolyl or pyrazin-2-yl (substd. by (R ₁) ₋):	((()))

X = F	EXA	heated	give a
S		O Me	(ix)
\ \		O Me	(viii)
N			(vii)

 $R_2 = 1-4C$ alkyl, halo or 1-4C haloalkyl; $R_3 = H$ or 1-4C alkyl; $R_4 = h$ alo.

USE

(I) are useful as agricultural and horticultural bactericides, esp. against gray mould on strawberries and green beans.

PREPARATION

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F, Cl, Bror I.

ed under reflux for 1.5 hrs., then conc. under reduced pressure to a carboxylic acid chloride, this was dissolved in 10 ml hydrofuran and 0.53 g pyridine was added. <u>MPLE</u> 0.6 g of 2-chloronicotinamide and 5 ml of thionyl chloride were

0.56 g of 2-(2-thienyl) aniline dissolved in THF was added to the above soln. and stirred at room temp. for 1 hr. The resulting mixt. was poured over ice and extracted with ethyl acetate, then washed with 5% hydrochloric acid, then with satd. sodium hydrogen carbonate aq. soln. and dried with magnesium sulphate.

The solvent was removed by evaporation under reduced pressure to give 0.71 g (76%) N-(2-(2-thienyl)phenyl)-2-chloronicotinamide. (20pp055DwgNo.0/0)

JP 08092223-A

HETEROCYCLE-SUBSTITUTED ANILINE DERIVATIVE AND AGRICULTURAL/HORTICULTURAL GERMICIDE WITH THE SAME AS ACTIVE INGREDIENT

Publication number: JP8092223
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SHUNICHI

Applicant:

MITSUI TOATSU CHEMICALS

Classification:

- international: C07D237/08; A01N43/08; A01N43/10; A01N43/40;

A01N43/54; A01N43/56; A01N43/58; A01N43/60; A01N43/76; A01N43/78; A01N43/80; C07D213/40; C07D213/61; C07D231/14; C07D239/26; C07D241/12; C07D261/08; C07D263/32; C07D277/20; C07D277/28; C07D277/32; C07D277/56; C07D307/52; C07D405/12; C07D409/12; C07D413/12; C07D417/12; C07D237/00; A01N43/02; A01N43/34; A01N43/48; A01N43/72; C07D213/00; C07D231/00; C07D231/00; C07D231/00; C07D241/00; C07D405/00; C07D409/00; C07D413/00; C07D417/00; C07D4

C07D277/32; C07D277/56; C07D307/52; C07D405/12; C07D409/12; C07D413/12; C07D417/12

C07D241/12; C07D261/08; C07D263/32; C07D277/28;

- european:

Application number: JP19940231599 19940927 Priority number(s): JP19940231599 19940927

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Abstract of JP8092223

PURPOSE: To obtain a new hoterocycle-substituted aniline derivative having excellent disease injury-controlling effect and useful as an agricultural/ horticultural germicide safe to crop. CONSTITUTION: This compound is expressed by formula I[Het is of formula II, III, IV, V (R<1> is H, a 1-4C alkyl, halogen or 1-4C haloalkyl), etc.; R is formula VI-IX (R<2> is a 1-4C alkyl, halogen or 1-4C haloalkyl; R<3> is H or a 1-4C alkyl), etc.], e.g. N- 2-(2-thienyl)phenyl}-2-chloronicotinamide. This compound of formula I is obtained by reaction between a heterocyclic-substituted aniline and a carboxy acid halide in a melt state or in a solvent. Plant disease injuries can be controlled by applying this compound or a germicide containing this compound to plant pathogenic fungi or their inhabited sites.

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